

SHATENSHTEYN, A.I.; ZVYAGINTSEVA, Ye.N.; YAKOVLEVA, Ye.A.; IZRAILEVICH, Ye.A.;
VARSHAVSKIY, Ya.M.; LOZHKINA, M.G.; VEDENYEV, A.V.

Acid-base catalysis of the hydrogen isotope exchange reaction. Probl.
kin. i kat. 9:218-233 '57. (MIRA 11:3)
(Catalysis) (Hydrogen--Isotopes)

IZRAILEVICH, Ye. A.

SHATINSKIY, A. I.; IZRAILEVICH, Ye. A.

Obtaining organic deuterium compounds. Probl. kin. i kat. 9:430-
1440 '57. (MIRA 11:3)

(Deuterium)

"APPROVED FOR RELEASE: 08/10/2001

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CIA-RDP86-00513R000619410012-7"

100, 1-2-1/20
 AUTHORS: Brodskiy, V.L., Izraelovich, Ye.A., Liberman, A.L., Onozaki, M.I.,
 Pashkova, O.S., Prishchepko, A.F., and Shaloshchikov, A.I.

TITLE: On Electron Spectra of Aromatic Hydrocarbons and their Deuterated
 Derivatives at 20°K (Ob elektronnykh spektrakh aromatischeskikh
 uglevodorodov i ikh deuterirovannykh proizvednykh pri 20°K)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 2, pp 115-122 (USSR),

ABSTRACT: The present paper is the first of a series on the ultraviolet
 absorption spectra of deuterated compounds and the changes in the
 molecular and crystal structure produced by deuteration. To obtain
 the hyperfine structure and to observe the small isotopic shifts
 measurements were made at 20°K. The work reported here is also an
 extension of the application of the deuteration methods based on the
 isotopic exchange of hydrogen with liquid deuterium bromide or with
 a solution of KND_2 in liquid ND_3 (Refs 4-10). The results are given
 in Table 1 which shows that using such methods all kinds of hydrogen
 in diphenyl, naphthalene, toluene, n-xylene, euzene, penta- and
 hexamethylbenzene may be replaced by deuterium. The preparation
 followed the method described in Ref 10, which gives the method of

Card 1/3

SCI, 51-5-44/26

On Electron Spectra of Aromatic Hydrocarbons and their Deuterated Derivatives at 20°K

calculation of the number of replaced hydrogen atoms n in a hydrocarbon molecule. The last column of Table 1 shows that the number n differs only a little from the total number of hydrogen atoms in the hydrocarbon molecule in question. The following hydrocarbons were deuterated: benzene, toluene, m-xylene, n-xylene, mesitylene, durene, 1,2,4-trimethylbenzene, naphthalene, phenanthrene, diphenyl. The constants, such as the boiling point, refractive index, of the original and deuterated substances are given in Table 2. Using polarized light the authors obtained the electron spectra of the crystals listed in Table 1 (both in deuterated and non-deuterated forms). Measurements were made at 20°K and the results are shown in Figs 1-7. The spectral changes produced by deuteration are due, firstly to changes in the energy states of molecules, and secondly to changes in the crystal structure. The first produce spectral shifts towards the short wavelengths by some 100-200 cm^{-1} and a decrease of frequencies of the molecular vibrations by a factor of 1.04-1.15. The crystal structure changes show up in the polarization ratios for the absorption bands and in the change of spacing between strongly polarized bands. A.L. Liberman (Institute of Organic Chemistry, Academy of Sciences of the U.S.S.R.) prepared para benzene and alkylbenzenes. A.I. Shatenshteyn and Ye.A. Izraelovich

Card 2/6

SOV/51-5-2-3/26

On Electron Spectra of Aromatic Hydrocarbons and their Deuterated Derivatives at 20°K

(Physico-Chemical Institute imeni Karpov) prepared deuterated compounds. V.L. Broude, M.I. Onopriyenko, O.S. Fakhomova and A.F. Prihot'ko (Institute of Physics, Academy of Science of the Ukrainian S.S.R.) obtained and interpreted the electron spectra. The authors thank Yu. Antonchik for density measurements of the deuterated hydrocarbons and P. Manochkina for help in deuteration of the hydrocarbons. There are 7 figures, 2 tables and 16 references, 14 of which are Soviet, 1 American and 1 English.

ASSOCIATION: Institut fiziki AN UkrSSR; Fiziko-khimicheskiy institut im. Karpova (Institute of Physics, Academy of Sciences of the Ukrainian S.S.R.; Physico-Chemical Institute imeni Karpov)

SUBMITTED: July 16, 1957

Card 3/3 1. Hydrocarbons-d--Spectrographic analysis 2. Ultraviolet spectrum
--Applications

AUTHORS: Shatenshteyn, A. I., Izrailevich, Ye. A. SOV/79-28-11-8/55

TITLE: On the Protonic Mobility of the Hydrogen Atoms in Aromatic Hydrocarbons With Aliphatic Substituents (O protonnoy podvizhnosti atomov vodoroda v aromaticeskikh uglevodorodakh s alifaticeskimi zamestitelyami)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 11, pp 2939-2943 (USSR)

ABSTRACT: Owing to the protonic mobility the hydrogen atoms are capable of being substituted by deuterium or tritium on the action of bases enriched with these isotopes, as well as by alkali metal, and of taking part in various organic reactions (condensations etc.). The degree of mobility of the hydrogen atoms does not only depend on the structure of the compound but also on the question with which other compound and under which conditions the reaction takes place. For this reason various methods were devised for the determination of the mobility of the hydrogen of different sensitivity. The substitution by metal belongs to the most sensitive ones, this substitution, however, changes in the case of the alkali metal the reactivity of the compound in such a degree that

Card 1/3

On the Protonic Mobility of the Hydrogen Atoms in
Aromatic Hydrocarbons With Aliphatic Substituents

SOV/79-28-11-8/55

the subsequent metallization meets with difficulties even in the case where C-H bonds of equal valence are present in the initial product. The difference and the advantage of the isotopic reaction are represented by the fact that in it all hydrogen atoms that are mobile according to the conditions of the experiment take part in it. The sensitivity of the substitution reactions is sufficiently high in the case of a high protophilic behaviour of the reagent. For this reason, the authors employ the isotopic method for the classification of the protonic mobility of the hydrogen atoms in aromatic compounds with aliphatic substituents by using solutions of potassium amide in liquid deuterio-ammonia for the deuteration (Refs 1-5). The experiments described in the experimental part show that in aromatic hydrocarbons with aliphatic substituents (alkyl benzenes, phenylated alkanes etc.) the hydrogen atoms of the aromatic nucleus and the atoms connected with the α -carbon atom of the substituent (in the catalysis with potassium amide in liquid ammonia) are substituted by deuterium. The combined hydrogen atoms connected with the β -carbon of the substituent are considerably less mobile

Card 2/3

Izrael

75-1-22/32

AUTHORS: Shatenshteyn, A. I. , Peregudov, G. V. , Izrailevich, Ye. A. ,
Kalinachenko, V. R.

TITLE: Preparation of Some Deuterated Aromatic Hydrocarbons and Their
Raman Spectra (Polucheniye nekotorykh deyterirovannykh aromatisches-
kikh uglevodorodov i ikh spektry kombinatsionnogo rasseyaniya)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 1, pp.145-151 (USSR)

ABSTRACT: Some known preparations, as well as some ones of deuterated aroma-
tic hydrocarbons still not being mentioned in literature were ob-
tained, and their Raman spectra were measured by means of isotope
exchange of hydrogen with ND_3 + KND_2 or with liquid DBr. A compa-
rison between the Raman spectra of hexadeuterobenzene- and octa-
deuteronaphthalene preparations and those from the references 11,
12, 14 and 15 proves the identity of all preparations and fully
confirms the approbation of the new methods of preparation of deu-
terated hydrocarbons. The advantages of these new methods in rela-
tion to those of other authors are enumerated: rapid reaction, the
solvent is easily to be removed, possibility of a complete deuterat-
ion of various aromatic-, aliphatic-aromatic- and ethylene-hydro-
carbons, as well as many other organic compounds. The advantage
on occasion of the deuteration by means of liquid DBr in relation

Card 1/4

75-1-22/32

Preparation of Some Deuterated Aromatic Hydrocarbons and Their Raman Spectra

to that one by means of liquid ND_3 is the higher coefficient of the deuteration distribution between the C-H and N-H bonds ($\alpha = 3,0$) in comparison to $\alpha = 0,9$ in CH- and NH bonds (see reference 18 and 21). In the presence of an equal quantity of heavy water, 25 times more of DBr than of ND_3 is obtained, besides. The pure benzene and toluene preparations placed at the disposal by A. L. Libernab served as initial substances. The liquid ND_3 was prepared by the action of D_2O (99,6 atm. % D) upon Mg_3N_2 (reference 2), whilst the liquid DBr was produced synthetically from the elements (reference 24). The technique of the experiment has been described in these references. Presently, the representation of the deuterio-ammonia is simplified: Mg_3N_2 and an ampule with heavy water are put into a steel balloon. A valve is screwed in into the latter one. By means of destroying the ampule the reaction between Mg_3N_2 and D_2O is liberated. On occasion of the hydrogen exchange the substances exist in the solution. As a rule the potassium amide concentration is not great (0,02 M). The exchange reaction was carried out once more with new solvent portions at room temperature during a period, which guarantees the obtaining of the equilibrium in the exchange reaction. On occasion of the experiments with C_{10}H_8 the number of the ND_3 mols amounted to 50-150 per mol of substance, whilst on occasion of the experiment with benzene

Card 2/4

76-1-22/32

Preparation of Some Deuterated Aromatic Hydrocarbons and Their Raman Spectra

and toluene per mol of substance only 20-40 mol of the solvent was taken, because these hydrocarbons (especially benzene) on occasion of distilling after the experiment are easily entrained by ammonia. In order to obtain preparations by means of isotope exchange with liquid DBr 1 g of the substance was dissolved in 15 - 22 g of liquid DBr. After evaporation of the solvent the liquid substances were distilled (above CuSO_4 , in order to remove the ND_3 traces, or above Na, in order to bind D_2Br). Solid substances were distilled 2 - 3 times.

The spectra of the combined scattering (Raman spectra) were measured by means of a two-prism-spectrograph "Huet" with relative aperture 1 : 4,7 and a dispersion of 100 cm^{-1} in the range of 4358 \AA . In the following work the computations, and the interpretation of the spectra are given, and the values of the frequencies are precised. The Raman spectra of following substances were measured: C_6D_6 , C_{10}D_8 , $\text{C}_{12}\text{D}_{10}$, $\text{C}_6\text{D}_5\text{CD}_3$, 1,4,5,6- $\text{C}_{10}\text{D}_4\text{H}_4$, 2,3,6,7- $\text{C}_{10}\text{D}_4\text{H}_4$, 2,4,6,2',4',6'- $\text{C}_{12}\text{D}_6\text{H}_4$ and 3,5,3',5'- $\text{C}_{12}\text{D}_4\text{H}_6$.

The authors were advised by G. S. Landsberg, Academician, and Professor P. A. Bazhulin. P. N. Manochkina assisted. The density of

Card 3/4

5(4)

AUTHORS:

Shatenshteyn, A. I., and
Izrailevich, Ye. A.

SOV/76-32-12-9/32

TITLE:

A Comparison Between Deuterium Exchange and the Metal
Substitution in Alkyl Benzenes (Sravneniye deyteroobmena i
metallirovaniya alkilbenzolev)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 12, pp 2711-2716
(USSR)

ABSTRACT:

Toluene, ethyl benzene, isopropyl benzene, tertiary butyl
benzene, and n-butyl benzene were treated with deuterium bromide
at 0°, 10°, and 25°C in the presence of potassium amide. The
deuterium substitution in the alkyl group was calculated from
 $n_a = n - n_k$ (n_a - deuterium in the alkyl group; n - aggregated
deuterium content, determined in the combustion product; n_k -
deuterium in the ring, determined after oxidation into benzoic
acid and combustion). The hydrogen atoms in the ring are harder
to substitute than the alkyl group hydrogen atoms. Shorygin
(Ref 11) discovered the metal substitution by means of organic
alkali compounds. A. A. Morton (Ref 13) confirmed the difference
in the reactivity of hydrogen in the sequence $\text{CH}_3 > \text{CH}_2 > \text{CH}$.

Card 1/3

A Comparison Between Deuterium Exchange and the
Metal Substitution in Alkyl Benzenes

SOV/76-32-12-5/32

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova, Moskva
(Physico-Chemical Institute imeni L. Ya. Karpov, Moscow)

SUBMITTED: July 25, 1957

Card 3/3

AUTHORS:

Yurygina, Ye. N., Alimov, P. P.,
Izrailevich, Ye. A., Manochkina, P. N.,
Shatenshteyn, A. I. (Moscow)

S/076/60/034/03/015/038
B115/B016

TITLE:

The Kinetics of Deuterium Exchange of the Isomers of Monodeutero-
toluene, Monodeutero-diphenyl, and Monodeutero-naphthalene With
Liquid Hydrogen Bromide and a Solution of Potassium Amide in
Liquid Ammonia

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol 34, Nr 3, pp 587 - 593
(USSR)

TEXT: The aim of the investigation under review was the determination of the factors of the partial rate f in the hydrogen isotopic exchange of the substances mentioned in the title with the reagents likewise mentioned in the title. The synthesis of monodeuterated hydrocarbons, the deuterium concentration in water on combustion of the hydrocarbons, and the carrying out of experiments are described. The rate constant of the deuterium exchange is calculated by an equation and, when using ammoniacal solutions, by a simplified form of this equation. The results of the measurements made with liquid HBr are given in table 1, those of the experiments with ammoniacal solutions in table 2, and the mean values of the constants of the deuterium exchange rate

Card 1/3

The Kinetics of Deuterium Exchange on the Isomers of
Monodeutero-toluene, Monodeutero-diphenyl, and Mono- S/076/60/034/03/015/038
deutero-naphthalene With Liquid Hydrogen Bromide and a B115/B016
Solution of Potassium Amide in Liquid Ammonia

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Institute of
Physical Chemistry imeni L. Ya. Karpov)

SUBMITTED: June 13, 1958

Card 3/3

EXCERPTA MEDICA Sec.4 Vol.11/4 Med.Microb. etc. April 58

897. BACTERIOLOGICAL DIAGNOSIS OF EARLY STAGES AND BLURRED
FORMS OF PERTUSSIS (Russian text) - Izraellevich E. Y. -
NAUCH. TRUD. MOSK. INST. VAKT. SYVOR. 1956, 6 (261-264)

The author used the posterior pharyngeal wall tampon method (advocated by him earlier as giving rather better results than the cough plate method) to check the value of bacteriological diagnosis of pertussis in the early catarrhal stage, and also for detection of atypical, blurred forms of pertussis. The experiments showed that the pertussis organism was successfully grown in 77% (48 of 59 children) of patients examined in the catarrhal stage. In 38 patients the bacteria were detected 1-15 days before the onset of whooping cough. The method also proved useful for the diagnosis of blurred forms of pertussis in children's homes and schools where there was not a single clinically obvious case of the disease. (S)

IZRAILEVSKIY, M. [Izrailev, 'kyi, M.], inzh.

Fruit storehouses for collective and state farms. Sil'. bud. 12
no.10:11-12 0 '62. (MIRA 15:10)

(Fruit—Storage)

VAYNBERGER, Isaak Matveyevich; VASENIN, Aleksandr Yermolayevich;
IZRAILIT, Lev Abramovich; KEMETSKIY, Dmitriy Borisovich;
SPORIUS, Eduard Alekseyevich; TIKHONOV, Vasilij Fedorovich;
FAYNSHTEYN, Vladimir Maksovich; LAM, I.A., otv. red.;
SAKHAROV, Ye.D., red.

[Mechanization and automation of mail processing operations]
Mekhanizatsiya i avtomatizatsiya obrabotki pochty; informa-
tsionnyi sbornik. Moskva, Izd-vo "Svyaz", 1964. 77 p.
(MIRA 17:6)

BCRODZYUK, G.O.; STEPANOV, G.N.; DRIATSKIY, N.M.; IONTOV, L.Ye.; KOVALEV,
S.M.; BLOKHIN, A.S.; DVORTSOV, L.D.; LUGOVSKOY, N.Ye.; MERKULOV,
A.G.; SMIRNOV, B.P.; ROGINSKIY, E.M.; BALAN-IL'YEVSKAYA, I.A.;
IZRAILIT, S.G.; GRANAT, M.B.; ZARIN, S.A., otv.red.; PEDOROVSKAYA,
L.N., red.; MARKOCH, K.G., tekhn.red.

[Multichannel apparatus for high-voltage telephony on overhead
lines and cables] Mnogokanal'naya apparatura vysokochastotnogo
telefonirovaniia po vozdushnym i kabel'nyim liniyam svyazi. Moskva,
Gos.izd-vo lit-ry po voprosam svyazi i radio, 1959. 511 p.

(MIRA 14:1)

(Telephone--Equipment and supplies)

S/081/61/000/011/014/040
B105/B203

AUTHORS: Aref'iyeva, N. V., Diikov, U. V., Izraillov, K. S., Kirenikov,
I. I., Shemetillo, N. V.

TITLE: Measurement of the thermodynamic equilibrium temperature
between solid and liquid zinc, as well as solid and liquid
gold

PERIODICAL: Referativnyy zhurnal. Khimiya. no. 11. 1961. 164, abstract
11E25 (Tr. in-tov Kom-ta standartov, mer i izmerit.
priborov pri Sov. Min. SSSR. 1960. vyp. 49 (109). 13-23)

TEXT: The authors describe a new gas thermometer of improved precision.
They give results of measurements of thermodynamic equilibrium temperatures
between liquid and solid Au, and between liquid and solid Zn, and study the
instrumental errors with which the parameters of the thermometer had been
determined. The improved design of the manometer and the use of new units
increased the precision of pressure measurements. [Abstracter's note:
Complete translation.] ✓

Card 1/1

S/115/61/000/001/003/007
B129/B201

AUTHORS: Gordov, A. H., Izrailov, K. S., Kandyba, V. V., Kirenkov, I. I., Kovalevskiy, V. A., Lapina, E. A., Finkel'shteyn, I. Ye., and Ergardt, N. N.

TITLE: Comprehensive metrological studies for developing methods and apparatus for exact measurements of high temperatures

PERIODICAL: Izmeritel'naya tekhnika, no. 1, 1961, 22-25

TEXT: The ever-increasing demands made by industry on the accuracy and range of measurements of high temperatures make it necessary to reorganize the entire metrological system in the field of measurements of high temperatures and the development of new standard and model devices on the basis of the latest achievements in the construction of precision instruments. In this connection, the VNIIM imeni D. I. Mendeleyeva and KHGIMIP developed a program for the performance of comprehensive metrological studies for the establishment of new standards and high-precision master instruments for temperatures of up to 10,000°C. This metrological research work was completed in 1960. The studies were made in four fundamental directions: thermometry

Card 1/2

S/ 52/62/006/005/001/119
A160/A101

AUTHOR: Izrailov, K. S.

TITLE: An instrument for the capacitive fixation of the mercury-level height in a gas-filled thermometer

PERIODICAL: Referativnyy zhurnal, Fizika, no. 5, 1962, 11, abstract 5A129
("Tr. in-tov Kom-ta standartov, mer i izmerit. priborov pri Sov. Min. SSSR". 1961, no. 51 (III), 12-22)

TEXT: A description is given of the principle of determining the mercury level in a gage by the electric capacitance. The design of gage heads functioning as capacitance pressure transducers is presented. Investigated are the parameters of the transducer and the effect of various factors on its operation. The use of the capacitive method and of the corresponding measuring units in the gage of the new precision gas-filled thermometer of the VNIIM permitted to secure mercury-level readings with an error of $\pm 1 \mu\text{Hg}$.

[Abstracter's note: Complete translation]

Card 1/1

Temperatures of thermodynamic equilibrium between...

S/263/62/000/011/013/022
1007/1207

on the mercury, thus permitting the pressure of both gases to be equalized. Displacement of the diaphragm is controlled by the capacity method through an a.c. bridge, with an error not exceeding 1 micr. Hg. The mercury pressure-gage provided with capacitive blocking of the mercury level, ensures a measuring accuracy of ± 3 micr. Hg. Methods of melting of zinc are described with maximum impurities of 0.0003%, and of determining the thermodynamic freezing point of gold having an impurity limit below 0.0001%. Measurement results are given and the total measuring error is computed. On the strength of these results the temperature of $419.57 \pm 0.2^\circ\text{C}$ was found to be the most probable temperature of the thermodynamic equilibrium between solid and liquid gold while $1064.5 \pm 2^\circ\text{C}$ seems to be the most the probable freezing point of silver. There are 5 figures and 8 references.

[Abstracter's note: Complete translation.]

Card 2/2

KIRENKOV, I.I.; GORDOV, A.N.; IZRAILOV, K.S.; DIYKOV, U.V.

New measurements of thermodynamic temperatures of reference
points of tin, cadmium, zinc and gold. Izv.tekh. no.9:31-35
S '62. (MIRA 15:11)

(Thermometry)

42677

S/589/62/000/063/015/021
E194/E135

9.4172

AUTHOR: Izrailov, K.S.

TITLE: A separating chamber for gas thermometers with optical interference reading of zero

SOURCE: USSR. Komitet standartov, mer i izmeritel'nykh priborov. Trudy institutov Komiteta. no. 63(123). Moscow, 1962. Issledovaniya v oblasti teplovykh i temperaturnykh izmereniy. 168-181.

TEXT: When using a gas thermometer there are many advantages in separating the gas in the thermometer bulb from that in the manometer. This article describes the operating principles, construction and main properties of such a device for this purpose in which the absence of pressure difference across a flexible diaphragm which forms the separating barrier is recognised to within better than 1 micron of mercury by an optical interference method. The diaphragm is made of polished phosphor bronze, 74-76 mm diameter, 26-28 microns thick. It is sealed round the edge to a nickel-plated and polished copper backing plate which, for an area of a diameter of 76 mm, is hollowed to a depth of

Card 1/3

A separating chamber for gas ...

S/589/62/000/063/015/021
E194/E135

0.08 mm in the shape of a spherical surface with a 6 m curvature radius. The diaphragm can be deflected thus far without damage. The upper cover of the diaphragm, similarly hollowed, is made of optical glass; the overall cover is made of copper. The space below the diaphragm, which has a volume of 0.2 ml, is connected to the gas thermometer by a steel capillary of 0.5 mm diameter. The space above the diaphragm is connected to the manometer by a similar capillary. The complete device, together with a special optical system, is mounted on the stage of a microscope with a magnification of X 100 over a field (on the diaphragm) of about 1.2 mm diameter. The optical system passes part of a light beam to the diaphragm from which it is reflected back to the microscope and another part of the beam is reflected from another mirror, the whole being arranged to give a double interference pattern in the microscope. The pattern changes when the diaphragm is displaced. A typical diaphragm was displaced 0.25 microns per micron mercury pressure difference across it; the diaphragm zero setting was reproducible to better than ± 0.5 microns mercury; the device is sensitive to within 0.2 microns mercury; the stability is

Card 2/3

42678

S/589/62/000/063/016/021

E194/E436

9.11.72

AUTHOR: Izrailov, K.S.

TITLE: An isolating chamber with capacitive reading

SOURCE: USSR. Komitet standartov, mer i izmeritel'nykh priborov. Trudy institutov Komiteta. no.63(123). Moscow, 1962. Issledovaniya v oblasti teplovykh i temperaturnykh izmereniy. 182-199

TEXT: When using a gas thermometer it is often necessary to isolate the gas in the thermometer from the manometer. In this way contact between the thermometer gas and the mercury vapour is avoided, dead space in the thermometer is cut down and the manometer can be located at a convenient place away from the gas thermometer. Two types of chamber were developed, an interference chamber described elsewhere and a chamber with capacitive method of confirming zero pressure difference which is described here. The isolating chamber is a zero differential manometer, in which the thermometer gas is separated by a special diaphragm from the gas in the mercury manometer. Flexing of the diaphragm is converted into an electrical signal by means of an electric Card 1/4

00-0-30 microammeter

An isolating chamber ...

S/589/62/000/063/016/021
E194/E436

type M-24. The indicator, its amplifier and other auxiliary equipment are located in a separate unit. The bridge circuit is capable of measuring diaphragm displacements less than 0.01μ and the diaphragm sensitivity is about 0.04μ displacement per micron mercury, and displacements up to 100μ are directly proportional to the pressure. The clearance of 80μ between the diaphragm and guard surface is thus very suitable. The stability of the chamber's properties was particularly studied and found satisfactory in respect of barometric pressure, time and temperature, the total temperature error being of the order of $\pm 3 \mu$ of mercury per degree and, since the equipment is thermostatted at $20 \pm 0.1^\circ\text{C}$, this is negligible. The equipment has operated stably and reliably for over two years. Pressure differences in the chamber of 0.1 microns of mercury can be detected reliably. A new design of electrode is now being tested in which the rim is made of glass to facilitate observation of deflection of the disc during calibration. In determinations of thermodynamic temperature with a gas thermometer the overall error of balancing the pressure in the short arm of the mercury manometer does not exceed $\pm 1 \mu$ of mercury. The use of this

Card 3/4

An isolating chamber ...

S/589/62/000/063/016/021
E194/E436

device has greatly facilitated not only gas thermometer measurements but also such matters as checking the sealing of the thermometer system and the passage of gas through the capillary tubes to the thermometer bulb, setting up the initial pressure in the bulb and so on. The isolating chamber being a sensitive micromanometer should also find other applications. There are 15 figures.

ASSOCIATION: VNIIM

SUBMITTED: January 14, 1961

Card 4/4

ANEP'YEVA, N.V.; DIYKOV, L.V.; DOBROKHOTOV, A.G.; LITVINOV, A.O.; SHENKOV, I.I.;
NIKITENKO, L.V.; SHEMETILO, N.V.

New measurements of thermodynamic temperature with a gas thermometer.
Trudy inst.Kon.stand.mer i izm.prib. no.71:14-29 '63.

(MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im.
D.I. Mendeleyeva.

RAIKOVA, A. V.

How to obtain a high perennial grass yield. (Smolensk) Smolenskoe obl. gos. izd-vo, 1951. 55 p.

DA

1. Seeds. 2. Grasses - Russia - Smolenskaya oblast'.

1. IZRAYLOVICH, N. YE. Eng.
2. USSR (600)
4. Building
7. Application of efficient methods in the erection of industrial buildings.
Bnrl. stroi. tekhn. 9 no. 20, 1952
9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

SHATSKIY, Ye.Z., kandidat tekhnicheskikh nauk; IZRAYLOVICH, N.Ye., insbener.

Industrial enterprises of the Construction Trust for the Development of the
Gor'kiy Automobile Plant. Biul.stroi.tekh. 10 no.15:8-12 0 '53.

(MLRA 6:10)

1. TaiINS. (Gor'kiy--Reinforced concrete construction)
(Reinforced concrete construction--Gor'kiy)

IZRAYLOVICH, N.Ye., inzhener, redaktor; UDOD, V.Ya., redaktor; VOLKOV,
V.S., tekhnicheskii redaktor.

[Experiment in constructing dwellings of large building blocks]
Opyt stroitel'stva zhilykh domov iz krupnykh blokov. Moskva,
Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 46 p.
(MLRA 9:4)

1.Moscow. TSentral'nyy institut informatsii po stroitel'stvu.
(Building)

IZVALOVICH, N. E.

Using reed for building purposes. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 42 p.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619410012-7

1. The purpose of this report is to provide information on the activities of the Central Intelligence Agency (CIA) in the area of intelligence gathering and analysis. The report is intended for the use of the Central Intelligence Agency and its component organizations.

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CIA-RDP86-00513R000619410012-7"

IZRAILOVICH, N.Ye., inzhener, nauchnyy redaktor; UDOD, V.Ya., redaktor
izdatel'stva; GUSEVA, S.S., tekhnicheskiiy redaktor

[The practice of using precast reinforced concrete construction
elements in rural building] Iz praktiki primeneniia sbornykh
zhelezobetonnykh konstrukttsii v sel'skom stroitel'stve. Moskva,
Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 39 p. (MIRA 9:8)

1. Moscow. TSentral'nyy institut informatsii po stroitel'stvu.
(Precast concrete construction)
(Farm buildings)

IZRAILOVICH, N.Ye., inzhener, nauchnyy redaktor; KOTIK, B.A., redaktor
Izdatel'stva; GUSEVA, S.S., tekhnicheskiiy redaktor

[Annotated list of research works on building and architecture;
work carried out during 1956] Sbornik annotatsii nauchno-issledo-
vatel'skikh rabot po stroitel'stvu i arkhitekture; raboty, vypolnen-
nye v 1956 g. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit.,
1957. 466 p. (MLRA 10:9)

1. Akademiya stroitel'stva i arkhitektury SSSR. Tsentral'nyy
institut nauchnoy informatsii po stroitel'stvu i arkhitekture
(Bibliography--Building) (Bibliography--Architecture)

IZRAILOVICH, N.Ye., nauchnyy red.; KHLUDEYEV, Ye.I., red. izd-va,; MEDVEDEV,
L.Ye., tekhn. red.; GILSON, P.G., tekhn. red.

[Collection of abstracts of research work in building and architecture;
works completed in 1957] Sbornik annotatsii nauchno-issledovatel'skikh
rabot po stroitel'stvu i arkhitekture; raboty, vypolnennyye v 1957 g.
Moskva, Gos. izd-vo lit-ry po stroit., arkhit.i stroit. materialam,
1958. 651 p. (MIRA 11:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Tsentral'nyy
institut nauchnoy informatsii po stroitel'stvu i arkhitekture.
(Building research)

IZRAILOVICH, S.D.

Work practice of the council of assistance. Sov.zdrav. 15 no.4:
36-41 JI-Ag '56. (MLRA 9:9)

1. Iz gorodskoy klinicheskoy bol'nitsy No.18 imeni Oktyabr'skoy
Revol'yutsii Krasnogvardeyskogo rayona Moskvyy (glavnyy vrach
M.I.Kamnev)

(PUBLIC HEALTH,
in Russia, organiz. (Rus))

VECHTOMOV, M.I., inzh.; KUDRYAVTSEV, V.A., inzh.; MAL'KES, D.A., inzh.;
OSTROVSKIY, G.I.; POVERENNYI, L.D.; SUSHKOV, P.M., inzh.;
TYULENEV, N.Z., inzh. Prinimali uchastiye: GAL'ANOVA, N.S., inzh.;
PUTEYEV, N.P.; IZRAYLOVICH, Ye.A., inzh.; MARCHENKO, G.A., inzh.;
MAL'GINA, Z.S.; SOKOLOVA, Ye.A.; SOKOV, V.N., inzh.; TARASOVA,
S.N.; TASHAYEV, A.L., inzh.; FILIMONOV, S.V.; DEBALICH, K.F., inzh.,
nauch. red.; NOVITCHENKO, K.M., inzh., nauchnyy red.; SHAKOV,
S.N., inzh., nauchnyy red.; FAKTOROVICH, Yu.A., kand. tekhn. nauk,
nauchnyy red.; STUPIN, Ye.N., otv. red.; LUTOV, N.S., red.;
IVANOV, V.S., red.; BAGUZOV, N.P., glav. red.; VOLCHEGORSKIY, M.S.,
zam. glav. red.; DOBRYNIN, S.N., red.; NAZAROV, I.A., red.;
KOLESHNIKOV, S.I., red.; MEL'NIKOV, N.P., red.; SUSNIKOV, A.A., red.;
STAROVEROV, I.G., red.; LYTKINA, L.S., red. izd-va; GORDEYEV, P.A.,
red. izd-va; OSENKO, L.M., tekhn. red.

[Handbook for the designer of industrial, residential, and public
buildings and structures; organization of construction and execu-
tion of building and assembly operations. Industrial construc-
tion] Spravochnik proektirovshchika promyshlennykh, zhilykh i
obshchestvennykh zdaniy i sooruzheniy; organizatsiya stroitel'-
stva i proizvodstvo stroitel'no-montazhnykh rabot. Promyshlen-
noe stroitel'stvo. Pod red. P.M.Sushkova. Moskva, Gos.izd-vo
lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 372 p.
(MIRA 15:2)

(Industrial buildings)

IZRAIL'SKAYA, M. A.

25975. Izrail'skaya, M. A. K patomorfologii travmaticheskogo shoka. zdravookhraneniye Kazakhstana, 1949, No 4, s. 13-16

SO: Knizhnaya Letopis', Vol. 1, 1955

DERGACHEV, I.S.; IZRAIL'SKAYA, M.A.

Pathomorphology and pathogenesis of tuberculous meningo-encephalitis
treated with streptomycin. *Pediatrics*, Moskva no.5:6-12 Sept-Oct 1953.
(GIML 25:5)

1. Professor for Dergachev; Candidate Medical Sciences for Izrail'skaya.
2. Of the Pathoanatomic Division of the Institute of Pediatrics (Director -- Prof. M. N. Kasantseva), Academy of Medical Sciences USSR.

Izraillskaya M. A. Vol. 11/2 Pathology Feb. 58

580. PATHOMORPHOLOGY OF THE CNS IN CHILDREN WITH RHEUMATISM
(Russian text) - Izraillskaya M. A. - VOP. OKHR. MATER. DET. 1956,
1/5 (46-54)

The CNS of 20 children who had suffered from rheumatism was investigated. Pathological findings fell into 3 categories: in the first group of 11 children with the cardio-articular form and cardiac failure, pathological examination revealed congestive encephalopathy and changes caused by insufficient and deranged blood circulation, and also changes in cerebral vessels as a result of hypoxia of nerve cells and glia. In the second group of 4 children there were signs of exudative meningo-encephalitis. In the 3rd group of 5 children there were signs of productive encephalitis with knot-like formations in various parts of CNS, however, without the features of Aschoff's nodules. In all groups there were signs of changes in the smaller cerebral vessels in form of focal or diffuse sclerosis and dystrophic changes in the nerve cells. Involvement of the sympathetic nervous system in rheumatism was reflected by pathological changes in the mid-brain. Many of the changes were probably reversible in life.

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12 pat. peritonitis, later died
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IZRAIL'SKAYA, M.A. (Moskva)

Changes in the central nervous system in rheumatic fever in children.
Arkhn.pat.18 no.4:99-104 '56 (MIRA 11:10)

1. Iz patologeoanatomicheskoy laboratorii (zav. - prof. I.S. Degrachev)
Instituta pediatrii AMN SSSR.

(RHEUMATISM, in inf. and child
brain pathol. (Rus))

(BRAIN, pathol.
in rheum. in child. (Rus))

USOL'TSEV, A. N., kand. med. nauk; GORAIL'SKAYA, E. A., kand. med. nauk

Rheumatic pneumonias in children. *Pediatrics* no. 8: 21-27 '61.

1. Iz otdeleniya patologii starshago detskogo vozrasta (zav. -
deystvitel'nyy chlen AMN SSSR prof. O. D. Sokolova-Ponomareva)
i patomorfologicheskoy laboratorii (zav. - prof. I. S. Dergachev)
Instituta pediatrii AMN SSSR (dir. - prof. O. D. Sokolova-Ponomareva).

(RHEUMATIC FEVER) (PNEUMONIA)

OSKOLKOVA, M.K.; IZRAIL'SKAYA, M.A.

Problem of the diagnosis of heart tumors. Vop. okhr. mat. 1
det. 6 no.6:71-75 Je '61. (MIRA 15:7)

1. Iz revmatologicheskoy kliniki (zav. - chlen-korrespondent
AMN SSSR prof. O.D. Sokolova-Ponomareva) Institut pediatrii
AMN SSSR i patomorfologicheskoy laboratorii (zav. - prof. I.S.
Dergachev) Instituta pediatrii AMN SSSR.
(HEART---TUMORS)

USOL'TSEV, A.N., kand. med. nauk; IZRAIL'SKAYA, M.A., kand. med. nauk

Clinical and anatomical characteristics of changes in the
lungs of children with leukemia. *Pediatrics* 41 no.10:43-50
O '62. (MIRA 17:2)

1. Iz otdeleniya patologii starshego detskogo vozrasta
(rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. O.D.
Sokolova-Ponomareva) i patomorfologicheskoy laboratorii
(rukovoditel' - prof. I.S. Dergachev) Instituta pediatrii
(dir. - dotsent M.Ya. Studenikin) AMN SSSR.

TOPARSKAYA, V.M., IZRAIL'SKAYA, N.M., MOSKVICH, M.G.

Effect of a fatty diet on the course of diabetes mellitus. Sov.
med. 22 no.7:29-34 J1 '58 (MIRA 11:10)

1. Iz endokrinologicheskogo otdeleniya (zav. - prof. M.S. Vovsi
Moskovskiy gorodskoy ordena Lenina klinicheskoy bol'nitsy imeni
S.P. Botkina i kafedry laboratornoy diagnostiki (zav. prof. Ye.A. Kost).
TSentral'nogo instituta uovershenstvovaniya vrachey.

(DIABETES MELLITUS, ther.

diet, high fat (Rus))

(DIETS, in various dis.

high-fat diet in diabetes mellitus (Rus))

KOST, Ye.A.; BOKUNYAYEVA, N.I.; IZRAIL'SKAYA, N.M.

"Handbook on laboratory methods of investigation" by G.N.Udintsev,
V.B.Blank, I.S.Timeskov. Reviewed by E.A.Kost, N.I.Bokuninaeva,
N.M.Izrail'skaia. Lab. delo 7 no.3:62-63 Mr '61. (MIRA 14:3)
(MEDICAL LABORATORIES—HANDBOOKS, MANUALS, ETC.)
(UDINTSEV, G.N.) (BLANK, V.B.) (TIMESKOV, I.S.)

RUSTAMBEKOV, A.F.; BABAYEV, N.B.; IZBAIL'SKIY, A.M.; FINKEL'SHTEYN, G.M.

Reducing the consumption of casings. Azerb.neft.khoz.35 no.7:8-10
Jl '56. (MLRA 9:12)
(Oil well drilling--Equipment and supplies)

LEBAL'CHIK, M. Ya.

Building materials - Transportation

Equipment for transporting building materials.
Biul. stroi. tekhn., 9, no. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, October 1952, Uncl.

IZRAIL'SKIY, M.Ya., inzhener.

Marking reinforced concrete products. Stroil.prom.32 no.11:47
N '54. (MLRA 7:11)
(Precast concrete construction)

IZRAILSKIY V. P.,

"The Problem of Acquired Immunity in Plants," Priroda, no. 11, 1953, pp. 25-33. 410 P533

SO: SIRA SI-19-53, 15 Dec. 1953

IZRAILSKIY V. P.

"Bacteriosis of Wheat," Trudy Vsesoiuznogo Nauchno-Issledovatel'skogo Instituta Zerna i
Produktov Ego Pererabotki, no. 13, 1934, pp. 38-40. 59.9 R55

IZRAILSKIY, V. P. and KAMAKOVA, A.

SO: SIRA SI-19-53, 15, Dec. 1953

AM
 ISRAILSKI (V. P.) & CHISTOSHEVA (M. S.). (Перодиагностика некоторых флуоресцирующих фитопатогенных бактерий. [Periodi-
 diagnostics of some fluorescent phytopathogenic bacteria].
 Микробиол. [Microbiol.], vii, 7, pp. 809-828, 3 figs., 1938. [English
 summary.] [Received May, 1939.]

Several strains of *Bacterium* [*Pseudomonas*] *citripulcra* [R. I. M., xv,
 p. 575] were isolated from branches of lemon and tangerine trees affected
 by blast [ibid., xvii, p. 812] and studied in comparison with other strains
 of the same organism from various districts of U.S.S.R. and with other
 bacteria. Meat peptone agar plus malachite green (1:100,000) was
 found to be a very suitable culture medium because it arrested the
 growth of spore-bearing and saprophytic bacteria, but allowed the
 development of fluorescent pathogenic bacteria, almost all of which
 formed the same characteristic type of colony with a wavy margin and
 a slightly uneven surface. The majority of the strains of *P. citripul-*
cra liquified gelatine, peptonized and alkalized milk, and failed to
 form acids from sugars (excepting a few strains on glucose), while some
 strains were divergent in their biochemical properties and later proved

to differ also in their serological properties and pathogenicity. The bacteriophage from *Bact. xanthochlorum* [ibid., xvi, p. 339] and that from *P. citripustula* isolated from tangerine dissolved all bacteria belonging to the fluorescent group but no other. Sera of rabbits immunized against *P. citripustula* agglutinated all strains of this bacterium and some of *Bact. tabacum*, while sera immunized against *Bact. mori* agglutinated most of the strains of *P. citripustula* and some of *Bact. tabacum*. Strains of *P. citripustula* aberrant in their biochemical properties were not agglutinated by sera of either *P. citripustula* or *Bact. mori*. It is assumed from a certain inconsistency in the serological data that some of the fluorescent bacteria contain a mixture of antigens, of which some are specific and others non-specific for the given bacteria. Of the strains of *P. citripustula* only those with the biochemical and serological properties typical for this bacterium proved pathogenic to the branches, leaves, and fruits of lemons, whereas the aberrant strains and also *Bact. mori*, *Bact. tabacum*, and *Bact. xanthochlorum* were not pathogenic.

LIST AND THE SUBJECT		PROCESSING AND PREPARED FOR	
<p>ISRAILSKI (V. P.) & CHISTOSERDOVA (Mina G. V.). Серологическое исследование растений, пораженных бактериальными болезнями. [Serological examination of plants affected with bacterial diseases] <i>Микробы</i> [Microbes], vol. 1, pp. 101-110, 1930 [English summary]</p>		<p>In further studies in Moscow on the possibility of applying serological tests for the diagnosis of bacterial diseases (<i>R.A.M.</i>, xviii, p. 443), extracts from the rind of lemon fruits and branches of lemon trees infected with <i>Bacterium</i> (<i>Paraulomonas</i>) <i>citripulens</i> gave a precipitate with rabbit sera immunized against this organism, whereas extracts from healthy plant material gave none; none of the extracts gave any precipitate with normal rabbit sera. Similar results were obtained in analogous tests with <i>Bact. mori</i>. A few normal sera gave precipitates with extracts from healthy plants, e.g. cotton, possibly owing to the presence of some pseudo-antibodies, and it is, therefore, of importance only to prepare immune sera from rabbits whose normal sera do not react in this way. Extracts from branches of lemon trees naturally infected with <i>P. citripulens</i> failed to precipitate, however, with sera immunized against strain 'lemon 25' of this organism, and a biochemical and serological examination of three out of the 15 strains isolated from these branches showed them to differ from strain 'lemon 25' in various</p>	
<p>AGS-56 METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>AGS-56 METALLURGICAL LITERATURE CLASSIFICATION</p>			

respects. Similar tests with beans and *Bact. anthracinum* (strains 69 and 77) also demonstrated that the precipitation reaction is specific, and takes place only when the sera used are immunized against a strain of bacterium serologically identical with, or closely related to, that present in the infected plant. Extracts from tomato and sunflower galls caused by *Bact. tumefaciens* gave very small precipitates with sera immunized against the same strain of the organism, and this is held to substantiate the observations of earlier workers that the galls contain only very small numbers of bacteria.

ISRAELSKI (V. P.) & ARTEMIEVA (Mme Z. S.) Biological properties of the agent (*Bacterium mori*) of Mulberry-tree bacteriosis. - *Muspe-Guot.* [Microbiol.], viii, pp. 898-899, 1939. [Russian, with English summary. Abs. in *Chem. Abstr.*, xxxv, 11, p. 3673, 1941.]

The lytic action of the bacteriophage of *Bacterium (Pseudomonas) mori*, the agent of mulberry bacteriosis in the U.S.S.R. [*R.S.M.*, xvi, p. 785], is stated to be non-specific. The bacteriophage exerts a prophylactic effect against mulberry leaf infection by *P. mori* and falls into two groups of strains, acid and alkaline, of which only the former ferment glucose and sucrose. The serological method of diagnosis of infection [ibid., xix, p. 73] in the host gives the most accurate results.

An emulsion of a pure culture of the bacteriophage of *P. mori* or the pulp of diseased mulberry leaves, introduced into garden soil, will lose its activity in about six days.

Sci-Res Inst. Microbiology, RSFSR Regular Comm. 8 Dec. 14

ISRAILSKII, V. P.

"The serological diagnostic--method of the virus and bacterial diseases of plants. "
(p. 66) by Israilsky, V. P.

SO: Advances in Modern Biology Uspekhi Sovremennoi Biologii)
Vol. XI, No. 1, 1939

ERAILSKI (V. P.) & STRUMINKAYA (M. E. V.). Serological examination of plants affected with bacteriosis. III. Examination of legumes for *B. mediolughae* v. *phascolicola*, *B. flaccumifera*, *B. phasoli* v. *fusca* and others. *Moskopskiy*. - [*Moskovsk.*, x, 4, pp. 480-487, 1941. (English summary. *Ann. in Bot. Abstr.*, xvi, 10, pp. 2339-2340, 1942.)

10, pp. 2339-2340, 1942.]

Extracts of [*Phaseolus vulgaris*] plants infected by *Mycovirium: Xanthomonas medicaginis* var. *phaseolicola*, Bact. [*Corynebacterium flaccumiformans*, or Bact. [X.] *phaseolae* var. *flaccum*] gave specific precipitin reactions with sera prepared against the corresponding organism. The best extracts were obtained from finely cut portions of plants kept in water heated to 60° C., clarification being effected by one filtration (preferably not more) through tulle. Extracts prepared from healthy seeds yielded non-specific precipitates, which could be eliminated by first treating the extracts with normal serum for two hours at 37° to 40°, followed by a day in the refrigerator, the resultant precipitate being centrifuged off and the clear liquid used for testing. Extracts of infected seeds thus treated gave specific precipitin reactions with the antisera to the species of bacteria causing infection. Dialysis of the seed extracts for 24 hours in a cellophane bag against running water also removed the non-specific precipitates. The residue of sediment left in the bag was clarified by centrifugation, after which only the appropriate specific reactions were obtained.

1429

ISRAILAKI (V. P.). Приобретенный иммунитет у растений. [Acquired immunity in plants.] *Ученые соопрежениа Биологии*. [Achievements of contemporary Biology], xv, 2, pp. 162-180, 1942.

The author presents a detailed critical review of the available knowledge on the problem of acquired immunity in plants (*R.A.M.*, xvii, p. 80), referring in particular to the work of Carbone (*ibid.*, xi, p. 798), Cappelletti (*Ann. Bot. Roma*, xvii, pp. 1-87, 1928), and Magrou (*R.A.M.*, xvii, p. 799). A bibliography of 80 titles is appended.

P. 11

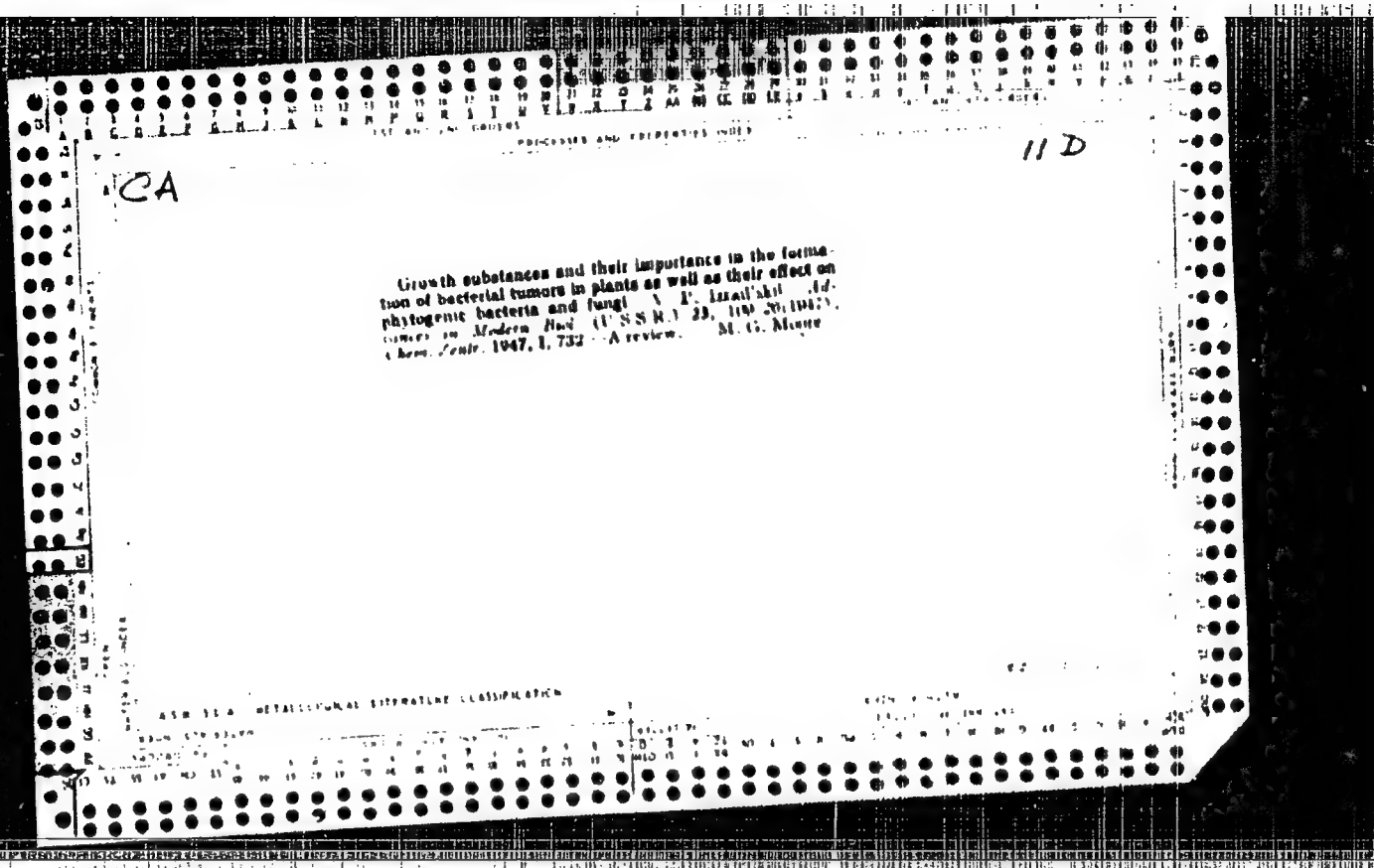
IZMAILSKY (V. P.). Antibiotic substances and bacteria control in animals and plants. *Veneru Corespondent Buzascu* [Advances in modern biology]. Moscow, xix, 3, pp. 358-371, 1945. [Russian.]

The author traces the growth of antibiotic research from Pasteur to the present day, and reviews the work of several investigators of the products of *Penicillium* spp. and their properties, following the discovery of penicillin by Fleming in 1929. A bibliography of 76 titles, twelve by Russian authors, is appended.

ISRAILSKY, V. P.

"Growth promoting substances and their role in bacterial tumor development." (p. 109) by
V. P. Israilsky.

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XXIII, No. 1, 1946



IZRAILSKIY, V. F.

"Growth Substances and Their Importance in the Development of Bacterial Sweetings in Plants, and Also in Phytopathogenic Bacteria and Fungi." Uspekhi Sovremennoi Biologii, vol. 23, no. 1, 1949, pp. 109-126. 442.8 Er3

SO: SIRA SI-19-53, 15 Dec. 1953

1201117 IV, V. T.

Bakterial'nye boleznii rastenii (bacterial diseases of plants). Moskva, Sel'khozgiz, 1952.
344 p.

So: Monthly List of Russian Accessions, Vol 6, No. 3, June 1953

"In search of anti-tumor serum from the infusoria of the paramoebium"
Vruchebnaya Dolo, 1964, 1965, 1966-1967

To infusoria (paramoebium caudatum) obtained after three-ti. centrifuga-
tion of boiled water, was added an equal amount of a 10 percent solution
of blood serum. After determination of the time interval in order to
establish a standard, we counted the destroyed infusoria. We found that
the serum of patients with malignant tumors destroyed the infusoria,
while the serum of patients with nonmalignant tumors and the serum of
healthy men had a less toxic effect. There must therefore exist a toxic
factor in the serum of patients with malignant tumors. (unpubl., 1962,
1964)

SC: Sum. 492, 12 May 65

IZRAIL'SKIY, V.P.

Filtrable forms of nodule bacteria. Mikrobiologiya 32 no.6:645-651
N-D '53. (MLRA 6:12)

1. Moskovskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo
instituta sel'skokhozyaystvennoy mikrobiologii.
(Microorganisms, Nitrogen-fixing)

IZRAIL'SKIY, V.P.

Examination of changes in nodule bacteria grown in filtrates of other bacteria. Mikrobiologiya 23 no.1:22-26 Ja-I' '54. (MLRA 7:2)

1. Moskovskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta sel'skokhozyaystvennoy mikrobiologii.

(Microorganisms, Nitrogen-fixing)

IZRAIL'SKIY, V.P.

"Plant diseases and the external environment." M.V.Gorlenko.

Reviewed by V.P.Izrail'skii. Mikrobiologiya 23 no.2:230-234

Mr-Apr '54.

(MLRA 7:4)

(Plant diseases) (Gorlenko, M.V.)

IZRAIL'SKIY, V.P.

IZRAIL'SKIY, V.P.; BORODULINA, Yu.S.

"Problems in the use of bacterial fertilizers." Mikrobiologiya 23
no.6:751-755 N-D '54. (MLRA 8:2)
(BACTERIOLOGY, AGRICULTURAL)
(FERTILIZERS AND MANURES)

IZRAIL'SKIY, V.P.

"Bacterial diseases in plants." M.V.Gorlenko. Reviewed by
V.P.Izrail'skii. Mikrobiologiya 24 no.5:638-640 S-O '55.
(BOTANY--PATHOLOGY) (MIRA 9:1)
(BACTERIA, PHYTOPATHOGENIC) (GORLENKO, M.V.)

USSR/Plant Diseases - Diseases of Cultivated Plants.

0-3

Abs Jour : Ref Zhur- Biol., No 7, 1958, 30226

Author : Izrail'skiy, V.P., Karpovskaya, S.Kh.

Inst : All Union Academy of Agricultural Sciences imini V.I.Lenin

Title : The Internal Infection of Tomato with Bacterial Canker
as a Communicatory Factor.

Orig Pub : Dokl. VASKhNIL, 1957, No 6, 22-26

Abstract : In order to investigate the role of the internal infection of seeds in the spread of tomato bacterial canker, a study was made with seeds collected from fruits 1) having internal infections, 2) having infected fruit stems, 3) from heavily attacked plants, and 4) from plants having moderately damaged stalks. To detect *Corynebacterium michiganense* (E. Smith) the seed surfaces were disinfected with mercuric chloride (1: 1000 and 1: 3000), the residual bactericide was removed by soaking in sterilized water for $3\frac{1}{2}$ to 4 hours (H_2SO_4 depressed seed germination,

Card 1/3

USSR / Microbiology. Symbiosis

F

Abs Jour : Ref. Zhur biol., No. 21, 1958, No 95071

Author : Izrail'skiy, V. P.

Inst

Title : The Investigation of Changes of Nodule-Forming Bacteria During Their Growth in Filtrates of Other Bacteria and the Effect of This Filtrate on Plants.

Orig Pub : Mikrobiologiya, 1957, 26, No.5, 541-543

Abstract : Seeds of lucern and clover, first disinfected with sulfuric acid, were soaked during sowing in agar mineral mediums without N with filtrates of nodule-forming bacteria of lucerne, clover, pea, as well as with a filtrate of Bact. tumefaciens. Of all the variants, only the filtrates of the lucerne bacteria caused the formation of pipe-

Card 1/2

I Z RALL'SKIY, V. P.

30(1)

10THURS:

Afrikyan, E. E. Inzhayeva, A. G., Candidates of Biological Sciences

TITLE:

Use of Antibiotics in Plant Cultivation (Primeneniye anti-biotikov v rasteniyevodstve).

PERSONAL:

Vostok Akademi bank 3882, 1959, Nr 1, pp 142-143 (USSR)

ABSTRACT:

A conference dealing with this subject took place in Yerevan from 8 to 13 October, 1958. It had been called by the Institute of Microbiology Akademi bank USSR (Microbiological Institute of the Academy of Sciences USSR), the Yerevan Institute of Agriculture (Yerevan Institute of Agriculture), the Institute for Agricultural Microbiology of the VASKHNIL and the Sator Microbiology Akademi bank Aranyanovsk NIS (Department for Microbiology of the Academy of Sciences of the Armenian SSR).

At the conference, a report was made about the results of the work of the Institute of Microbiology of the Academy of Sciences of the Armenian SSR, carried out by Ukrainian mycologists on soil fungus flora and its utilization in the fight against agricultural plant diseases.

In the report, V. P. Rall'skiy dealt with the utilization of the fungus *Trichoderma* in fighting the diseases of cotton bushes, potatoes and some other agricultural breeds. E. E. Afrikyan reported on investigations of the utilization of *Trichoderma* in the fight against the diseases of potatoes with produce active substances. A. G. Inzhayeva reported on the utilization of *Trichoderma* in the fight against the diseases of potatoes with produce active substances. V. P. Rall'skiy reported on the utilization of *Trichoderma* in the fight against the diseases of potatoes with produce active substances.

G. E. Rubanovskiy reported on the effect of preparations from cultures of actinomycetes to prevent wilt of the cotton bush. V. P. Rall'skiy reported on the utilization of *Trichoderma* in the fight against the diseases of potatoes with produce active substances. A. G. Inzhayeva reported on the utilization of *Trichoderma* in the fight against the diseases of potatoes with produce active substances.

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Card 2/4

Page 5/4

IZRAIL'SKIY, V.P., prof., doktor biolog.nauk; SHUSTOVA, L.N., kand.med.
nauk; GOHLENKO, M.V., doktor biolog.nauk; MURAV'YEV, V.P.;
BERN'ZOVA, Ye.F., doktor biolog.nauk; SUDAKOVA, L.V., mikrobiolog;
GRUSHCHOVOY, S.Ye., doktor sel'skokhoz.nauk; NEMOLIYENKO, P.Ye.,
doktor biolog.nauk; BEL'TYUKOVA, K.I., doktor biolog.nauk; STARYGINA,
L.P., kand.biolog.nauk; PERSHINA, Z.G., kand.biolog.nauk; ART'YEM'YEVA,
Z.S., mikrobiolog; NOVIKOVA, N.S., kand.biolog.nauk; OSNITSKAYA, Ye.A.,
fitopatolog; YASHNOVA, N.V., fitopatolog-mikrobiolog; MIKZAREN'YAN,
R.O., kand.biolog.nauk; TETUYUREVA, I.V., red.; PEVZNER, V.I., tekhn.red.

[Bacterial diseases of plants] Bakterial'nye bolezni rastenii. Izd.2.,
perer. i dop. Moskva, Gos.izd-vo selkhoz.lit-ry, 1960. 467 p.
(MIRA 13:7)

1. Chlen-korrespondent Ukrainskoy AN (for Murav'yev).
(Bacteria, Phytopathogenic) (Plant diseases)

BEREZOVA, Ye.F.; IZRAIL'SKIY, V.P.; IMSHENETSKIY, A.A.; KRASIL'NIKOV, N.A.;
MISHUSTIN, Ye.N.; NAUMOVA, A.N.; RAUTENSHTEYN, Ya.I.

E.V.Runov; obituary. Mikrobiologiya 29 no.6:945-946 N-D '60.
(MIRA 14:1)
(RUNOV, EFIM VASILIEVICH, 1901-1960)

IZRAIL'SKIY, V.P.; RYZHKOVA, A.S.; ROZANOVA, L.I.

Effect of gibberellic acid on kidney beans treated with
nitrogen. Trudy Inst. mikrobiol. no.11:327-33. '61
(MIRA 16:11)

1. Moskovskoye otdeleniye Vsesoyuznogo nauchno-issledova-
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"Ecological characteristics of root tubercle bacteria in the Armenian S.S.R." by A.P. Petrosian. Reviewed by V.P. Izrail'skii, Yu.S. Borodulina. Mikrobiologiya 30 no.6:1129-1131 N-D '61. (MIRA 14:12)
(ARMENIA--MICRO-ORGANISMS, NITROGEN-FIXING)
(PETROSIAN, A.P.)

IZRAIL'SKIY, V.P.

Determining the species in phytopathogenic bacteria by the serological method and the genealogy of some bacteria. Mikrobiologiya
31 no.6:1018-1022 N-D '62. (MIRA 16:3)

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instituta sel'skokhozyaystvennoy mikrobiologii.
(BACTERIA, PHYTOPATHOGENIC) (SERUM DIAGNOSIS)

IZRAIL'SKIY, V.P., prof.

Bacterial blight of fruit trees. Zashch. rast. ot vred. i bol.
8 no.1:50-51 Ja '63. (MIRA 16:5)
(Fruit—Diseases and pests) (Bacteria, Phytopathogenic)

Name: IZRAIL'CON, Rashel' Moiseyevna
Dissertation: Non-ovulatory (extrogoneous) uterine
hemorrhages
Degree: Doc Med Sci
Affiliation: Not indicated
Defense Date, Place: 23 Nov 54, Council of Central Inst for
Advanced Training of Physicians
Certification Date: 26 May 56
Source: BMVO 4/57

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USSR/Microbiology - Antibiosis and Symbiosis, Antibiotics.

F-2

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14739

Author : Fomichev, Yu.K., Izraitel', N.A.

Inst : -

Title : Experimental Effect of Levomycetin on Scleroma Bacillus.

Orig Pub : Zdravookhr. Belorussii, 1956, No 9, 43-46

Abstract : It was established by serial dilutions of levomycetin (I) in beef-peptone broth that the bacteriostatic titer for Frish-Volkovich scleroma bacillus is 0.39-12.5 γ /ml, and the bactericidal one 3.12-50 γ /ml. The tests were conducted in vivo on 40 mice weighing 16-18 g, to whom I was given perorally in doses of 1.5 or 15 mg, together with an intraperitoneal infection with a knowingly lethal dose of scleroma bacilli (500 million microbial bodies). In the last two doses I protected all the animals from death. I also proved effective in regard to a streptomycin-resistant variant of scleroma bacillus in experiments in vitro as well as in treating mice infected by this strain.

Card 1/1

USSR/Virology. Bacteria Viruses (Phages)

E

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57328

Author : ~~Izrael' N. A.~~

Inst : Not given

Title : Problems of Obtaining the Scleroma Bacteriophage and its Application in Experimental Therapy

Orig Pub : V sb.: Probl. sklerom. Infektsii. Minsk, Gosizdat. BSSR, 1957, 67-70

Abstract : The phage was isolated from 5 to 7 week old agar and bullion cultures of the scleroma bacillus. The phage had a titer of 10^7 , was highly specific and lysed 77 out of 80 museum strains. Secondary phage resistant cultures proved to be typical for the noncapsular variant of the scleroma bacillus. Upon the intraperitoneal administration of the phage to white

Card 1/2

ANTIBIOTICS

"On the Reliability of the Paper Disk Method", by Yu.K. Fomichev and N.A. Izrael', Chair of Microbiology (Head - B. Ya. El'bert) of the Minsk Medical Institute, Antibiotiki, No 2, March-April 1957, pp 53-54.

In view of the controversial opinions on the subject, the authors undertook to investigate the reliability of the paper disk test.

The experiments were performed with 40 strains of the Bacillus Frisch-Volkovich* and with 4 antibiotics: chlortetracycline, streptomycin, levomycetin*, and penicillin. As a control, the serial method was also used.

In the light of the results obtained, the authors conclude that the paper disk method may be used only for the rough determination of the sensitivity of the Vacillus Frisch-Volkovich to the above-mentioned antibiotics.

Card 1/2

KRASIL'NIKOV, A.P.; IZRAITEL', N.A.

Experimental anthrax in irradiated animals. *Med.rad.* 4
no.6:56-61 Je '59. (MIRA 12:8)

1. Iz kafedry mikrobiologii (zav. - prof.B.Ya.Ml'bert) Minskogo
meditsinskogo instituta.

(ROENTGEN RAYS, eff.

on exper. anthrax (R_{118}))

(ANTHRAX, exper.

eff. of x-rays (R_{118}))

KRASIL'NIKOV, A.P.; IZRAYTEL', N.A.

Effectiveness of antibiotic therapy and the prevention of experimental anthrax infection developing on the background of acute radiation sickness. Med. rad. 5 no.9:90 S '60. (MIRA 13:12)
(RADIATION SICKNESS) (ANTHRAX)
(ANTIBIOTICS)

IZRAITEL', N.A.; DAVYDOV, O.V.; KRASIL'NIKOV, A.P.

Role of farm animals in the infection of human beings with scleroma.
Zdrav. Belor. 6 no.4:26-30 Ap '60. (MIRA 14:5)

1. Iz kafedry mikrobiologii (zaveduyushchiy - professor B.Ya.El'bert)
Minskogo meditsinskogo instituta.
(RHINOSCLEROMA) (ANIMALS AS CARRIERS OF DISEASE)

EL'BERT, B.Ya.; KRASIL'NIKOV, A.P.; IZRAITEL', N.A.; DAVYDOVA, O.V.;
FAINSHTEYN, B.A.

Investigation of the fishes of the Pripet River Basin as bearers
of the scleroma bacillus. Zhur. ush., nos. 1 gorl. bol. 21 no.2:
39-44 Mr-Apr '61. (MIRA 14:6)

1. Kafedra mikrobiologii (zav. - prof. B.Ya.El'bert) Minskogo
meditsinskogo instituta.
(RHINOSCLEROMA) (PRIPET RIVER BASIN...FISHES)
(FISH AS CARRIERS OF DISEASE)

IZRAITEL', N.A., kand.med.nauk; KRASIL'NIKOV, A.P., kand.med.nauk

Action of colimycin and mycerin in experimental scleromatous
infection. Zhur.ush., nos.1 gorl.bol. 21 no.6:49-55 N-D '61.
(MIRA 15:11)

1. Iz kafedry mikrobiologii (zav. - prof. B.Ya.El'bert) Minskogo
meditsinskogo instituta.

(ANTIBIOTICS)

(RHINOSCLEROMA)

IZRAITEL', N.A.; KRASIL'NIKOV, A.P.; FAYNSHTEYN, B.A.; DAVYDOV, O.V.;
BORTKEVICH, V.S.

Role of a scleroma patient in the distribution of the disease.
Zhur. ush., nos. 1 gorl. bol. 23 no.5143-47 S-0'63
(MIRA 17:3)

1. Iz kafedry mikrobiologii (zav. - prof. B.Ya. El'bert)
Minskogo meditsinskogo instituta.

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Reaction of passive hemagglutination in the diagnosis of
scleroma. Lab. delo no.9:537-539 '64. (MIRA 17:12)

1. Kafedra mikrobiologii (zaveduyushchiy -- dotsent A.P.
Krasil'nikov) Minskogo meditsinskogo instituta.

IZPAITFL', P.L. (Chelyabinsk)

Extending the length of service and eliminating leaks in the
flush tank. Vod.i san.tekhn. no.10:35-36 O '62. (MIRA 15:12)
(Water closets)

IZRAITEL', S.A., inzh.

Improving the ventilation of blind entries. Bezop.truda v
prom. 3 no.4:12-13 Ap '59. (MIRA 12:6)
(Mine ventilation)

IZRAITEL', S.A., inzh.

Eliminate causes of accidents in the mining industry.

Bezop.truda v prom. 3 no.12:6-7 D '59.

(MIRA 13:4)

(Mining engineering--Safety measures)

ZAYTSEV, A.P., red.; BORZOV, K.V., red.; BOGUSLAVSKIY, Yu.K., red.;
BELOUSOV, V.G., red.; VODAKHOV, L.A., red.; IZRAITEL', S.A., red.;
KOL', A.N., red.; LISTUK, S.I., red.; MOISEYEV, S.I., red.;
MEL'NIKOV, N.V., red.; MOROZOV, V.P., red.; MUDROV, F.A., red.;
POLYAKOVA, Z.K., red.; PODERNI, Yu.S., red.; POLESIN, Ya.L., red.;
POKHOVSKIY, L.A., red.; SLASTUNOV, V.G., red.; SKURAT, V.K., red.;
STRUNIN, M.M., red.; SOKOLOVSKIY, M.M., red.; NEOKTISTOV, A.T.,
red.; CHESNOKOV, M.M., red.; SHUKHOV, A.N., red.; YAMSHCHIKOV,
S.M., red.; BYKHOVSKAYA, S.N., red.izd-va; BERUSLAVSKAYA, L.Sh.,
tekhn.red.

[Unified safety regulations in open-cut mining] Edinye pravila
bezopasnosti pri razrabotke mestorozhdenii poleznykh iskopaemykh
otkrytym sposobom. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po
gornomu delu, 1960. 61 p. (MIRA 13:7)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyi komitet po nadzoru
za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.
(Strip mining--Safety measures)

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Norms for air volumes pumped into mines. Bezop.truda v prom. 4
no.12:10-11 D '60. (MIRA 14:1)
(Mine ventiation)